

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A computer system, comprising:
a processor;

the processor operatively coupled to a computer readable storage medium including computer executable instructions, the computer readable storage medium includes:

an operating system having a driver comprising a plurality of instructions that interacts with a computing component, at least a portion of said driver instructions being in an intermediate language;

a plurality of application instructions separate from the driver instructions, said application instructions being in an intermediate language readable by an intermediate language compiler;

a plurality of runtime instructions, said runtime instructions being in an intermediate language readable by an intermediate language compiler, wherein said runtime instructions performs the translation between said application instructions and said driver; and

an intermediate language compiler capable of compiling the application instructions, the runtime instructions and said at least a portion of said driver instructions into a combined set of native instructions executable by the processor for interacting with the computing component, wherein the application instruction are optimized by eliminating conditional code and wherein at least one runtime function is inlined.

2. (Cancelled)

3. (Previously presented) The computer system as recited in claim 1 wherein the driver is split into user mode and kernel mode instructions.

4. (Previously presented) The computer system as recited in claim 3 wherein the user mode instructions of the driver translates from device driver interface instructions to hardware-specific commands.

5. (Previously presented) The computer system as recited in claim 4 wherein the driver writes hardware-specific commands into an operating system-allocated buffer for submission to a scheduler of the hardware's time.

6. (Original) The computer system as recited in claim 1 wherein the plurality of application instructions and the plurality of runtime instructions are delivered to the computer system over a network.

7. (Previously presented) The computer system as recited in claim 1 wherein the driver is delivered over a network.

8. (Previously presented) The computer system as recited in claim 1 wherein the intermediate language compiler comprises a Just-In-Time compiler.

9. (Currently Amended) A computerized method for software interaction with hardware, comprising:

receiving an application program in an intermediate programming language;

receiving at least a portion of a driver program in an intermediate language separate from the application program instructions, said driver program interacting with a computing component on a target computer system;

receiving a runtime program in an intermediate programming language, wherein said runtime program performs the translation between said application instructions and said driver program;

compiling the application program, the runtime program and the driver program into a single executable program for execution on the target computer system, wherein the single executable program is optimized by eliminating conditional code and wherein at least one runtime function is inlined.

10. (Cancelled)
11. (Previously presented) The method as recited in claim 9 wherein the driver program comprises a kernel mode portion in an executable form.
12. (Original) The method as recited in claim 11 wherein the driver program comprises a user mode portion provided in the intermediate language form.
13. (Original) The method as recited in claim 12 wherein the user mode portion translates from device driver interface instructions to hardware-specific commands.
14. (Previously presented) The method as recited in claim 9 wherein the driver program writes hardware-specific commands into an operating system-allocated buffer for submission to a scheduler of the hardware's time.
15. (Original) The method as recited in claim 9 wherein the application program and the runtime program are delivered to the target computer system over a network.
16. (Previously presented) The method as recited in claim 9 wherein the driver program is delivered over a network.
17. (Previously presented) The method as recited in claim 9 wherein the step of compiling uses a Just-In-Time compiler.

18. (Currently Amended) A computer-readable medium having stored thereon computer-executable instructions for software interaction with hardware, comprising:
instructions for receiving an application program in an intermediate programming language;
instruction for receiving at least a portion of a driver program in an intermediate language separate from the application program instructions, said driver program interacting with a computing component on a target computer system; and
instructions for receiving a runtime program in an intermediate programming language, wherein said runtime program performs the translation between said application instructions and said driver program;
instructions for compiling the application program, the runtime program and the driver program into a single executable program for execution on the target computer system,
wherein the single executable program is optimized by eliminating conditional code and
wherein at least one runtime function is inlined.

19. (Cancelled)

20. (Previously presented) The computer-readable medium as recited in claim 18 wherein the driver program comprises a kernel mode portion provided in an executable form wherein the at least a portion of the driver program in an intermediate language received comprise user mode instructions.

21. (Cancelled)

22. (Previously presented) The computer-readable medium as recited in claim 20 wherein the user mode instructions translate from device driver interface instructions to hardware-specific commands.

23. (Previously presented) The computer-readable medium as recited in claim 22 wherein the driver program writes hardware-specific commands into an operating system-allocated buffer for submission to a scheduler of the hardware's time.

24. (Previously presented) The computer-readable medium as recited in claim 18 comprising instructions for receiving the application program and the runtime program over a network.

25. (Previously presented) The computer-readable medium as recited in claim 18 comprising instructions for receiving the driver program over a network.

26. (Previously presented) The computer-readable medium as recited in claim 18 wherein the step of compiling uses a Just-In-Time compiler.